Fig. 1A (prior art)

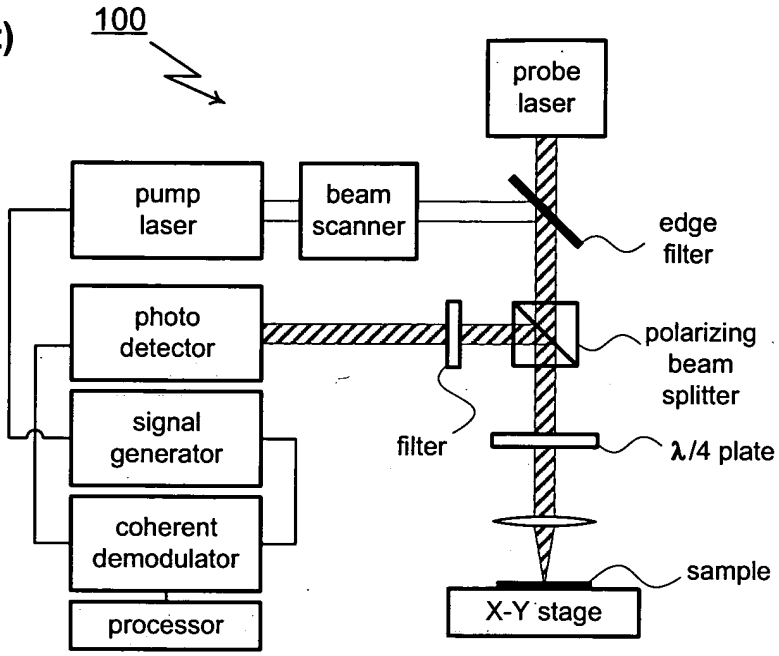


Fig. 1B (prior art)

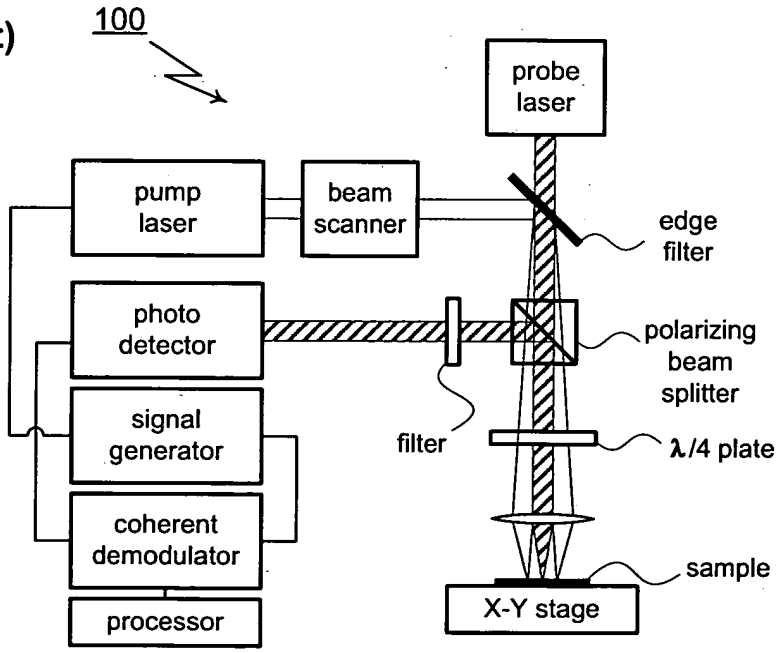


Fig. 2

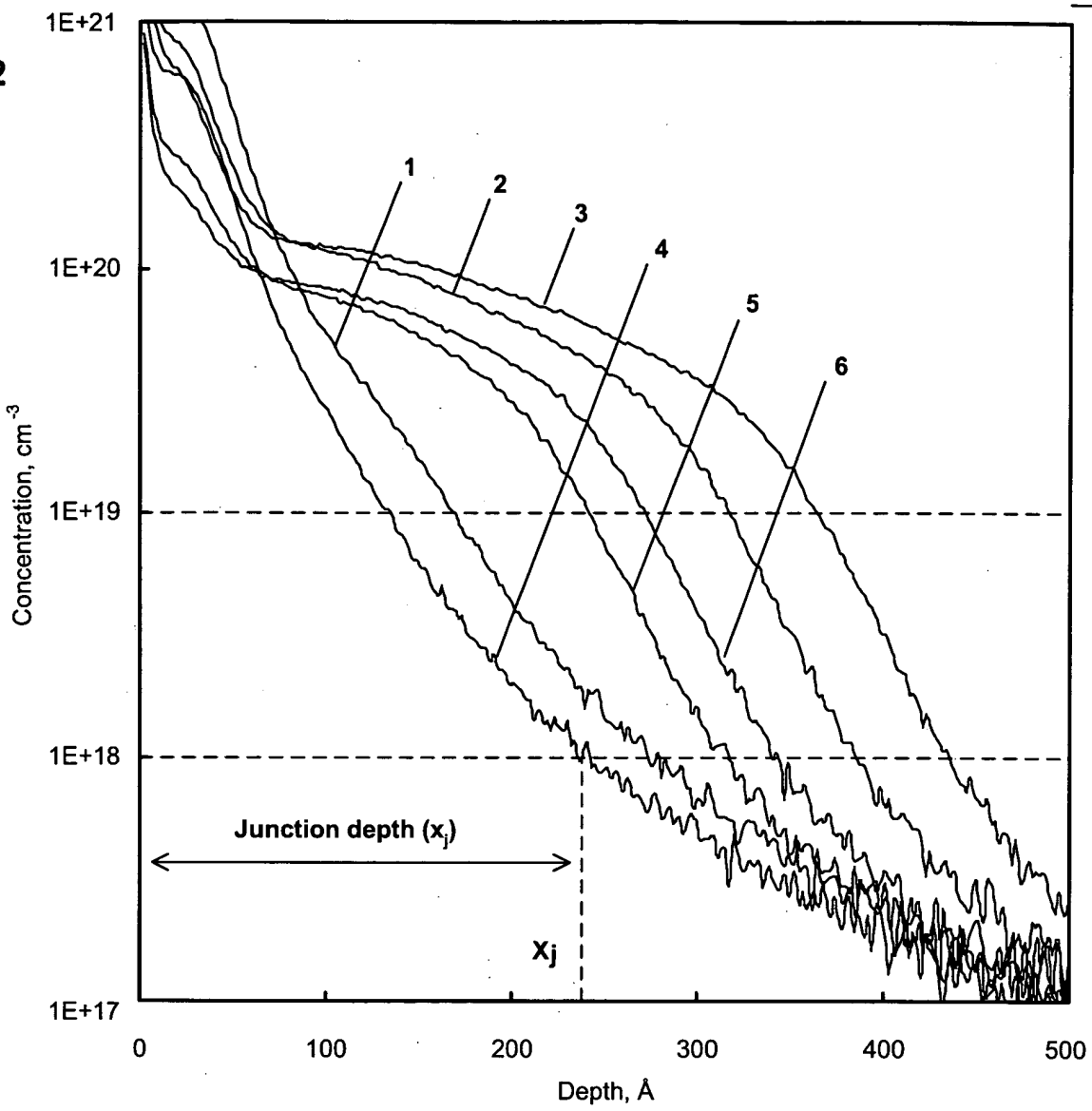

1E+21
1E+20
1E+19
1E+18
1E+17
Concentration, cm-3
1
2
3
4
5
6
Junction depth (xj)
Xj
0
100
200
300
400
500
Depth, Å

Fig. 3

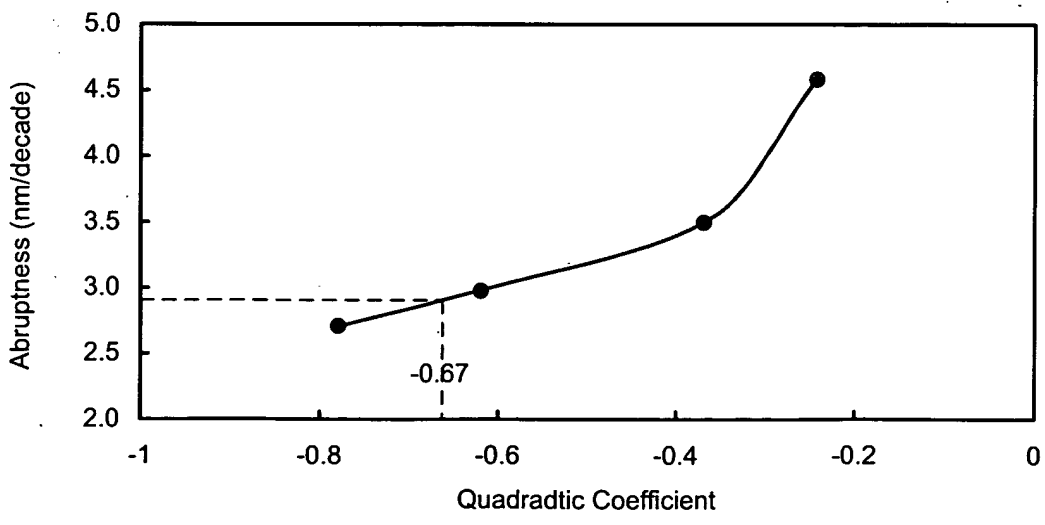

5.0
4.5
4.0
3.5
3.0
2.5
2.0
Abruptness (nm/decade)
-0.67
-1
-0.8
-0.6
-0.4
-0.2
0
Quadradtic Coefficient

Fig. 4

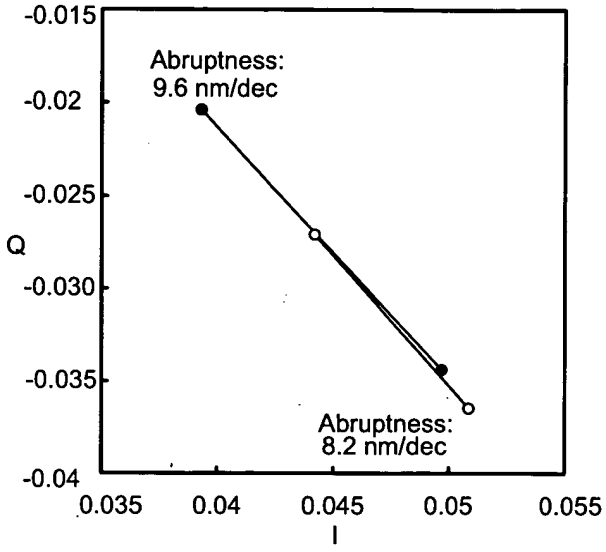
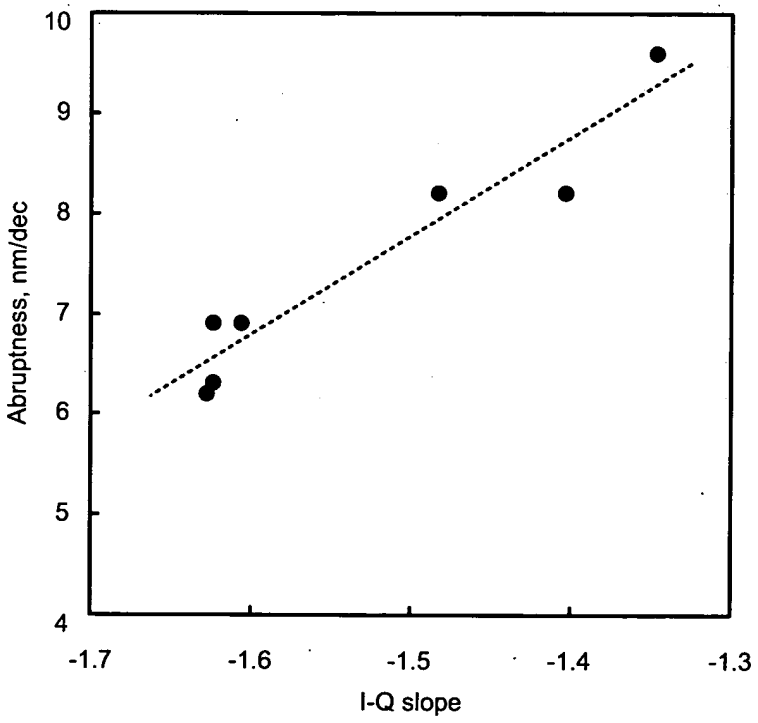

-0.015
-0.02
-0.025
-0.030
-0.035
-0.04
Q
Abruptness:
9.6 nm/dec
Abruptness:
8.2 nm/dec
0.035
0.04
0.045
0.05
0.055
I

Fig. 5


10
9
8
7
6
5
4
Abruptness, nm/dec
-1.7
-1.6
-1.5
-1.4
-1.3
I-Q slope

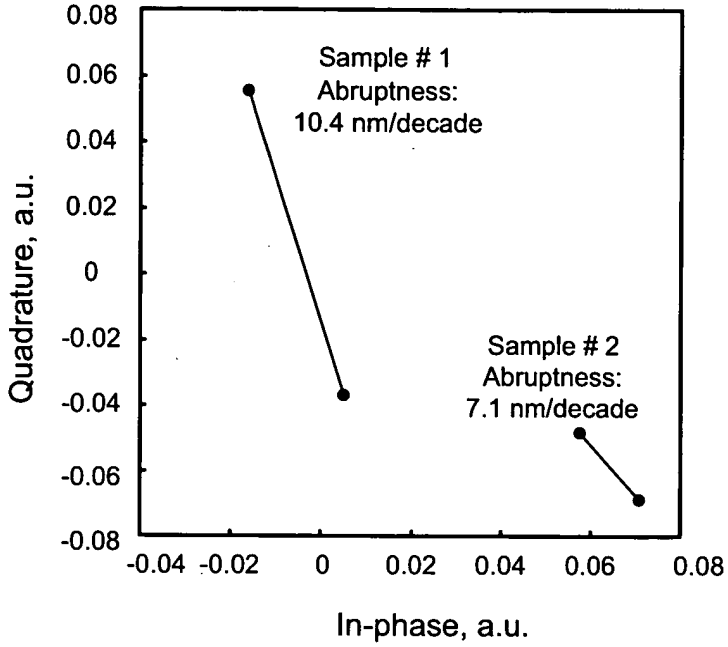
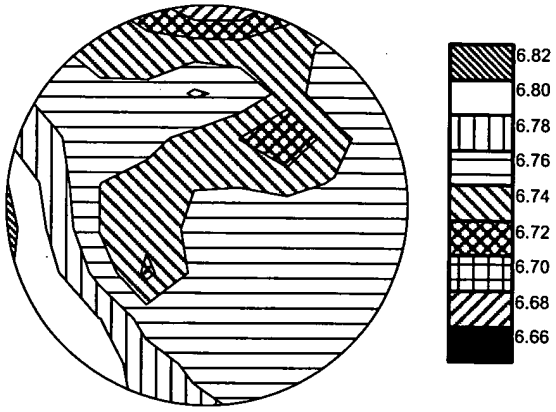


Fig. 6

Fig. 7



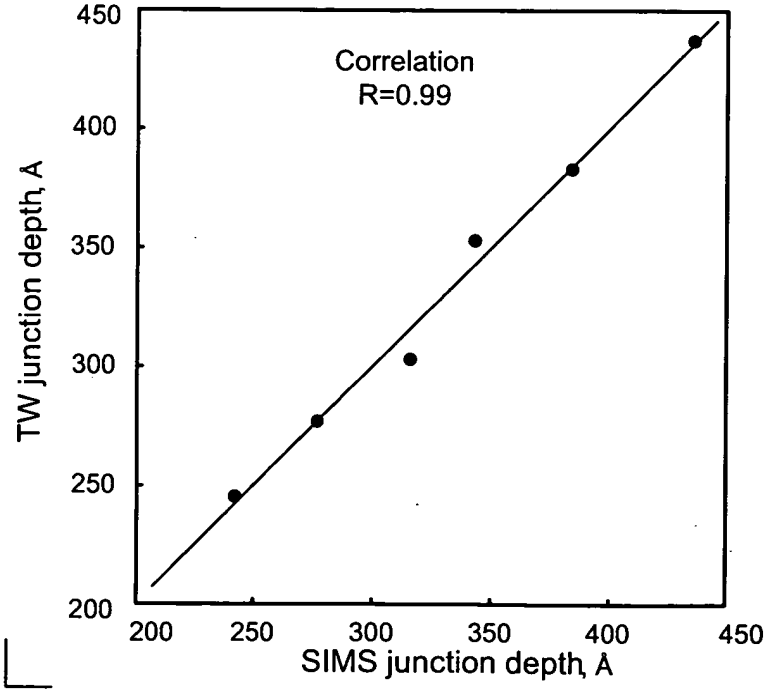
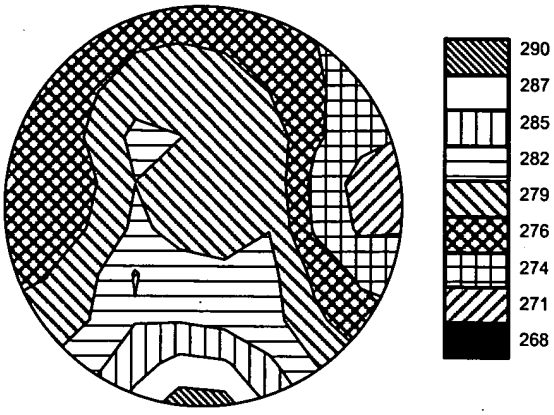
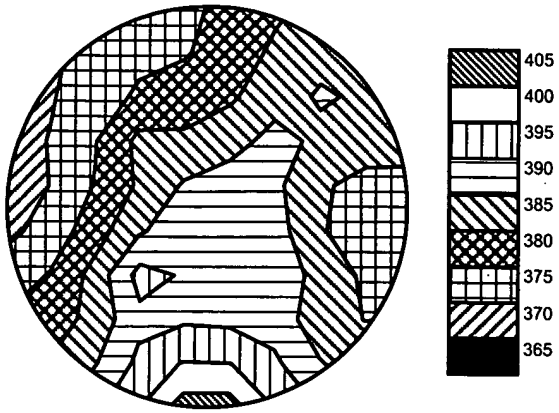


Fig. 8

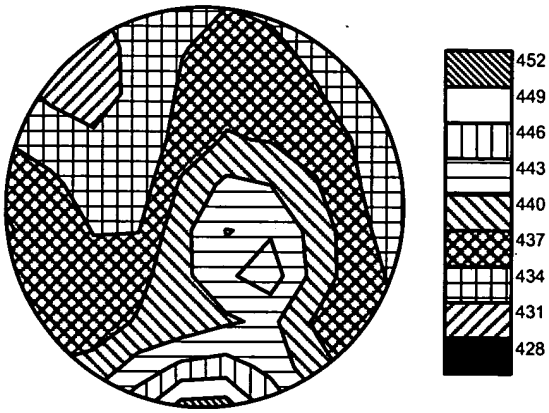
Fig. 9



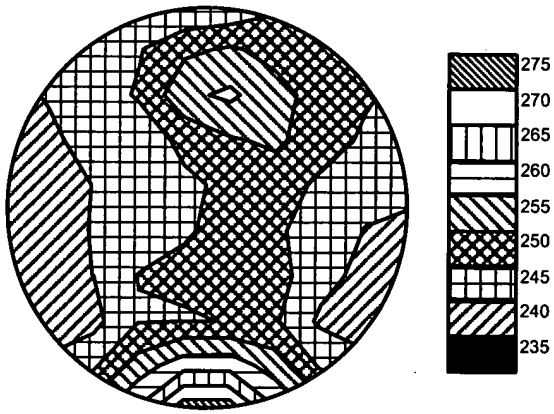
Sample #1, depth



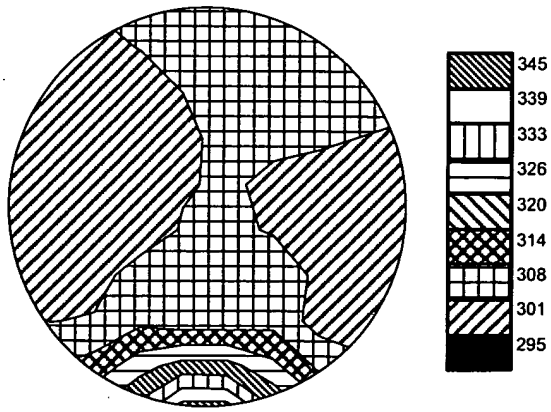
Sample #2, depth



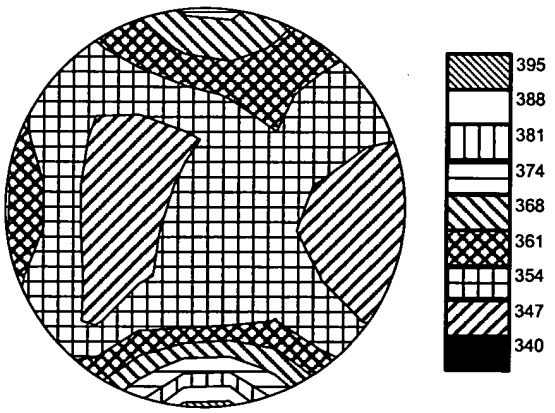
Sample #3, depth



Sample #4, depth

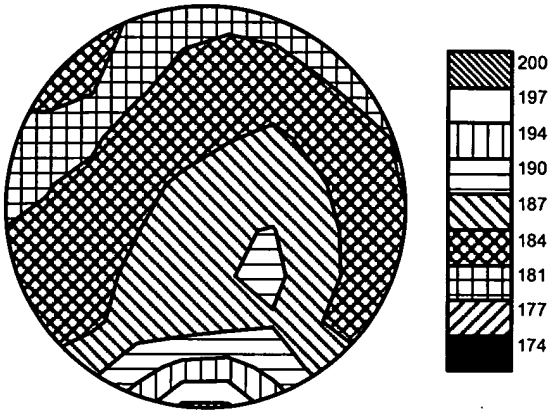


Sample #5, depth

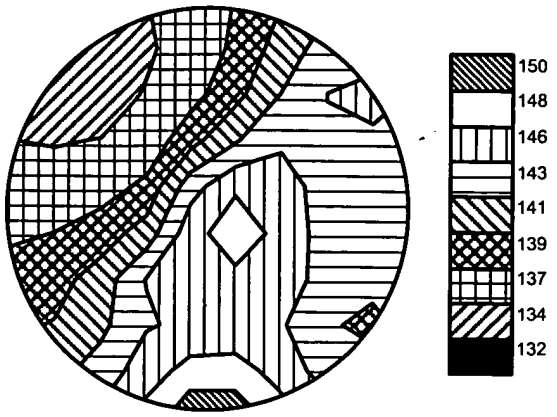


Sample #6, depth

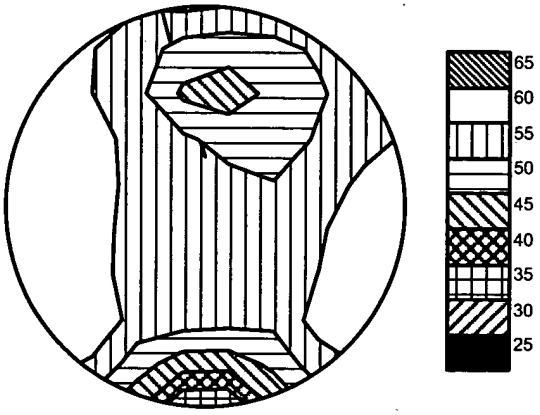
Fig. 10



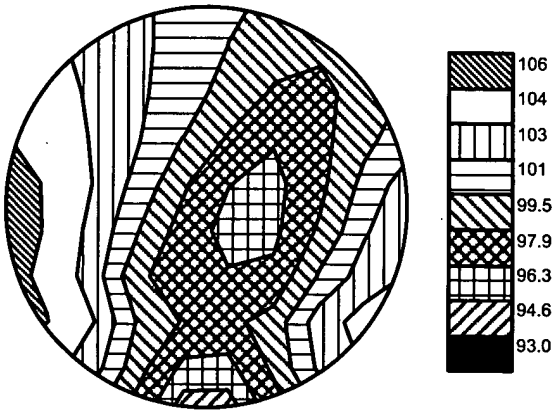
Sample #1, TW_0



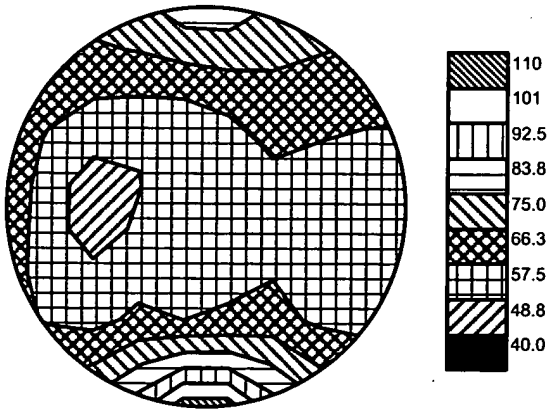
Sample #1, TW_{10}



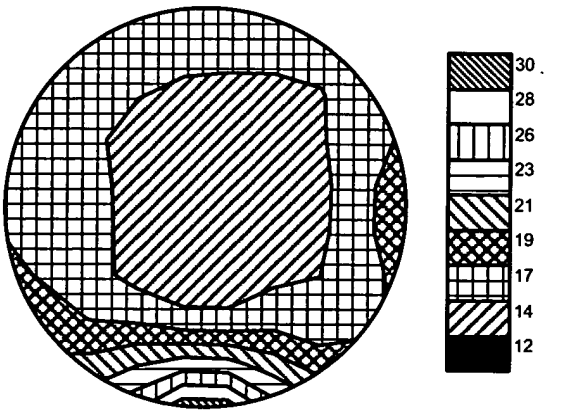
Sample #2, TW_0



Sample #2, TW_{10}



Sample #3, TW_0



Sample #3, TW_{10}

Fig. 11

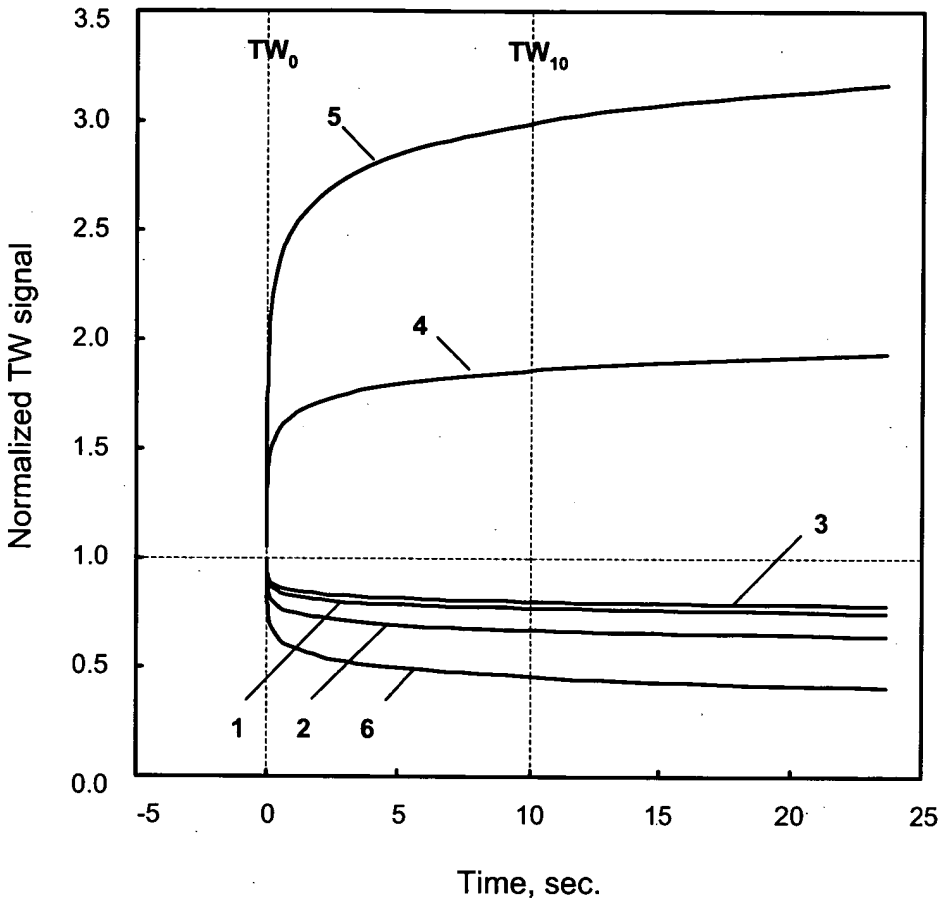
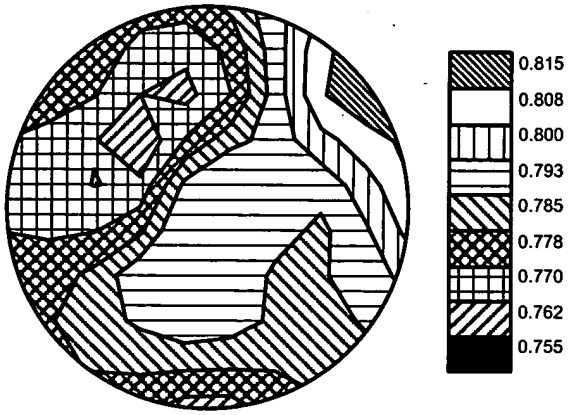
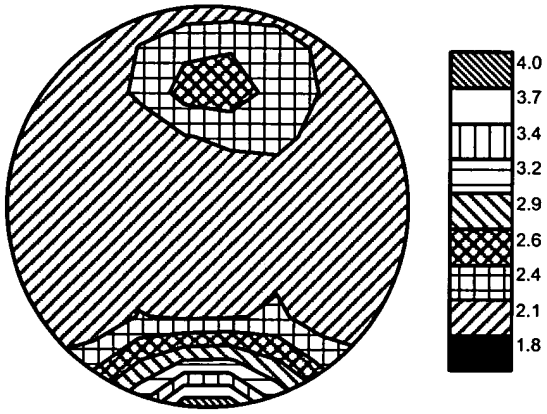

3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Normalized TW signal
TW0
TW10
5
4
3
1
2
6
-5
0
5
10
15
20
25
Time, sec.

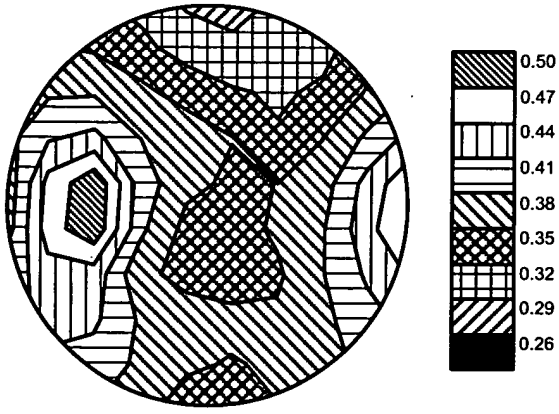
Fig. 12



Sample #1, DF

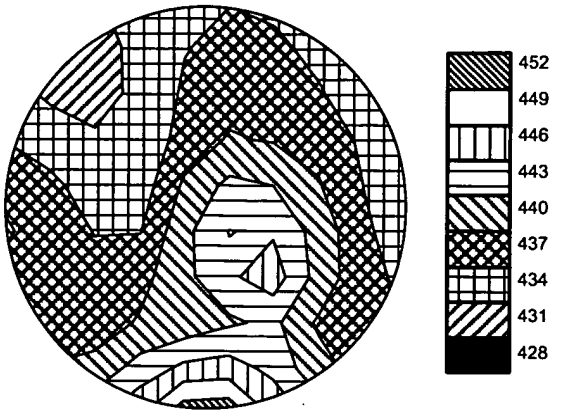


Sample #2, DF

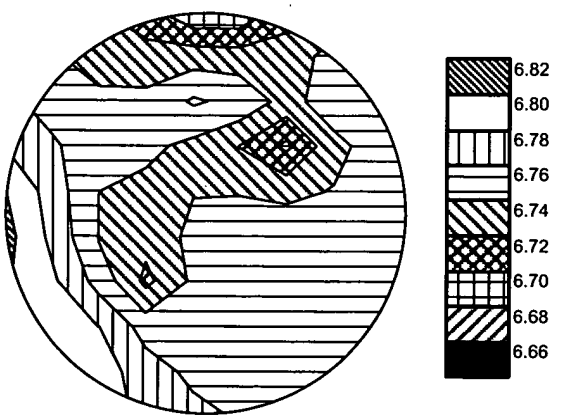


Sample #3, DF

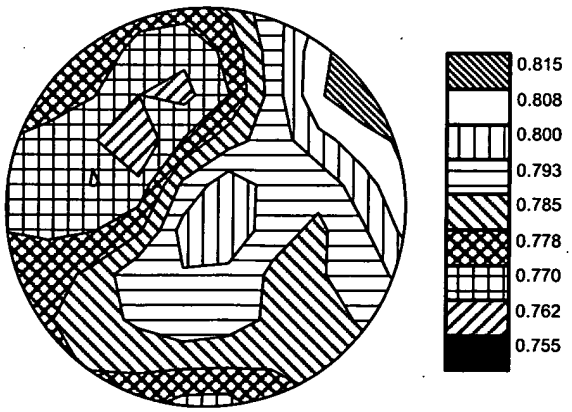
Fig. 13



Sample #3, depth



Sample #3, abuptness



Sample #3, DF